SANY - 02135

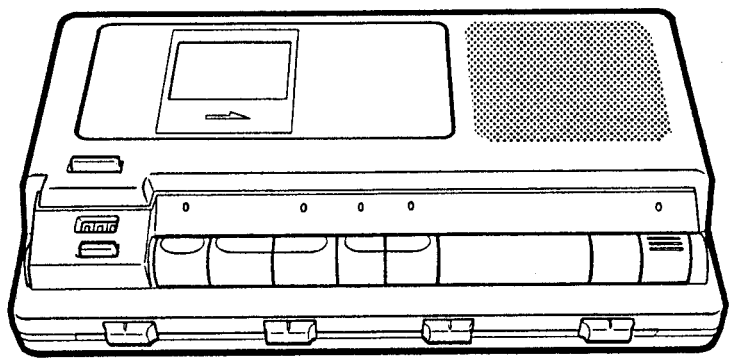
SANYO

FILE NO.

Service Manual

MEMO-SCRIBER

TRC-8080 (XE)
(UK)



Specifications

PRODUCT CODE No.
142 938 01 (XE)
142 938 03 (UK)

Erasing system	DC erase
Fast forward and rewind time	110 sec. (C-60 tape)
Wow and flutter	0.2 % WRMS
Frequency response ..	200 ~ 10,000 Hz
Signal to noise ratio ...	36 dB

Specifications subject to change without notice.

Output power	800 mW (10 % RMS)
Loud speaker	66 mm (D), 8 ohms
Power source	Local current with AC adaptor
	AC : 115 / 230 V, 50 / 60 Hz (XE)
	AC : 240 V, 50 Hz (UK)
	DC INPUT : 9 V
Dimensions	273 (W) x 165 (D) x 55 (H) mm
Weight	1.15 kg

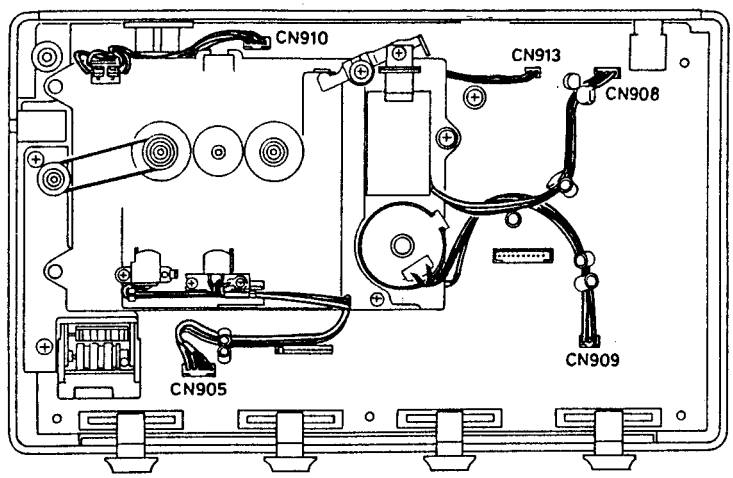
REFERENCE No. SM58(19)9

2135

REMOVAL AND INSTALLATION

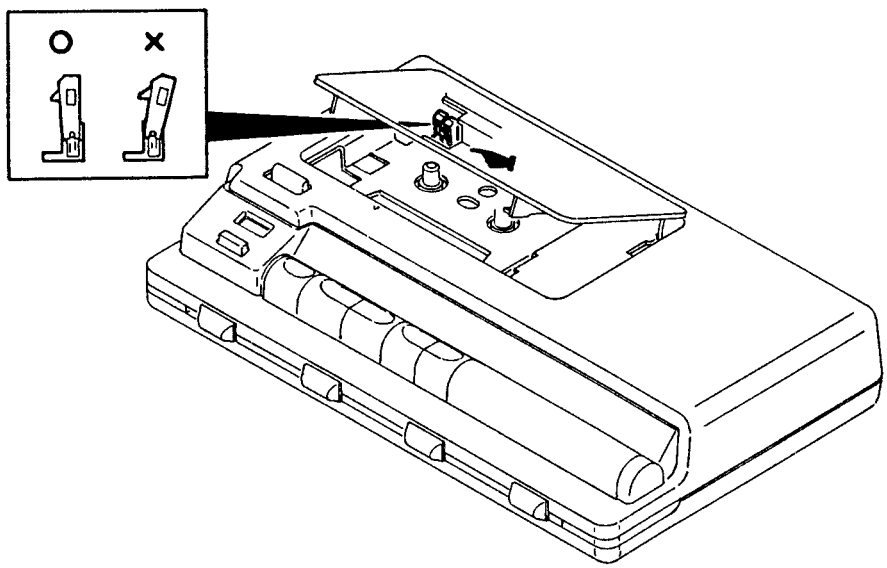
- Disconnect the power cord's plug from the electrical outlet.
- All wiring should be returned to the original position after work is completed.

a. WIRING LAYOUT



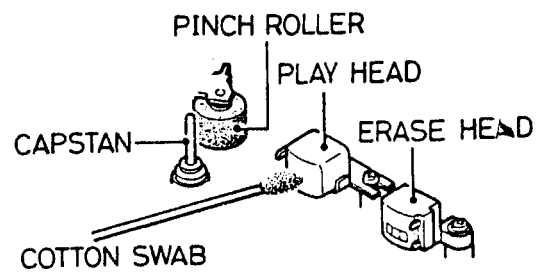
b. CASSETTE & TAB SWITCHES

- Checking the installation positions of switches.



MAINTENANCE

Clean the heads periodically for continued high fidelity performance.
Use a cotton swab and any commercial head cleaning agent.
Follow instructions on the cleaner container.
The magnetic head which is use for playback
can become magnetized from continued use.
A magnetized head will cause distortion in playback.



Demagnetize the head

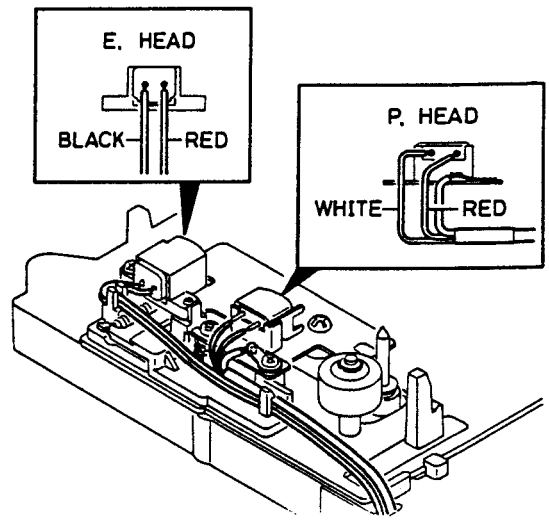
Periodically with a commercially available head demagnetizing unit.
Complete instructions are provided with these specially designed units.

TAPE DECK ADJUSTMENTS

a. HEAD REPLACEMENT AND AZIMUTH ADJUSTMENT

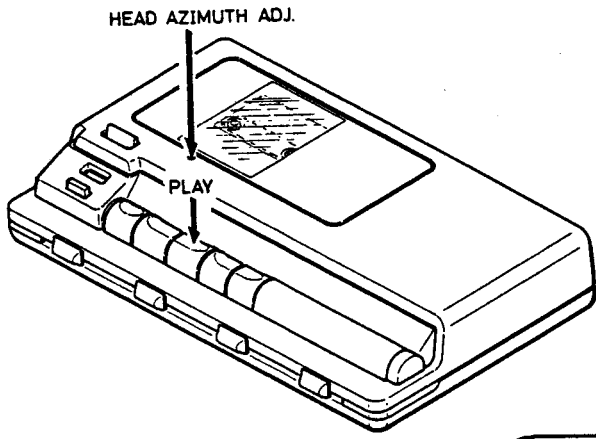
(a) Head replacement

- After replacement, demagnetize the heads by using a degausser.
- Be sure to clean the heads before attempting to make any adjustments.
- All wiring should be returned to the original position after work is completed.



(b) Head azimuth adjustment

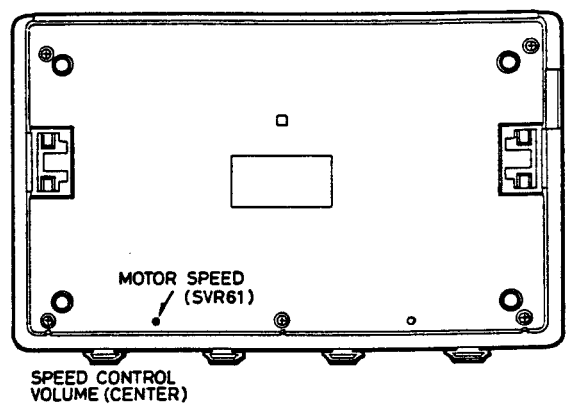
(1) Load the test tape (VTT-703, etc. : 10 kHz) for azimuth adjustment.
(2) Press the PLAY button.
(3) Use a cross-tip screwdriver to turn the screw for azimuth adjustment so that the outputs are maximized.
(4) After completion of the adjustment, use thread lock (TB-1401B) to secure the azimuth-adjustment screw.



b. MOTOR SPEED ADJUSTMENT

- SPEED CONTROL VOLUME : 0 (CENTER)

(1) Insert the test tape (MTT-111N, etc., 3000 Hz).
(2) Press the PLAY button.
(3) Adjust SVR61 so that the frequency counter shows are reading of 3,000 Hz.

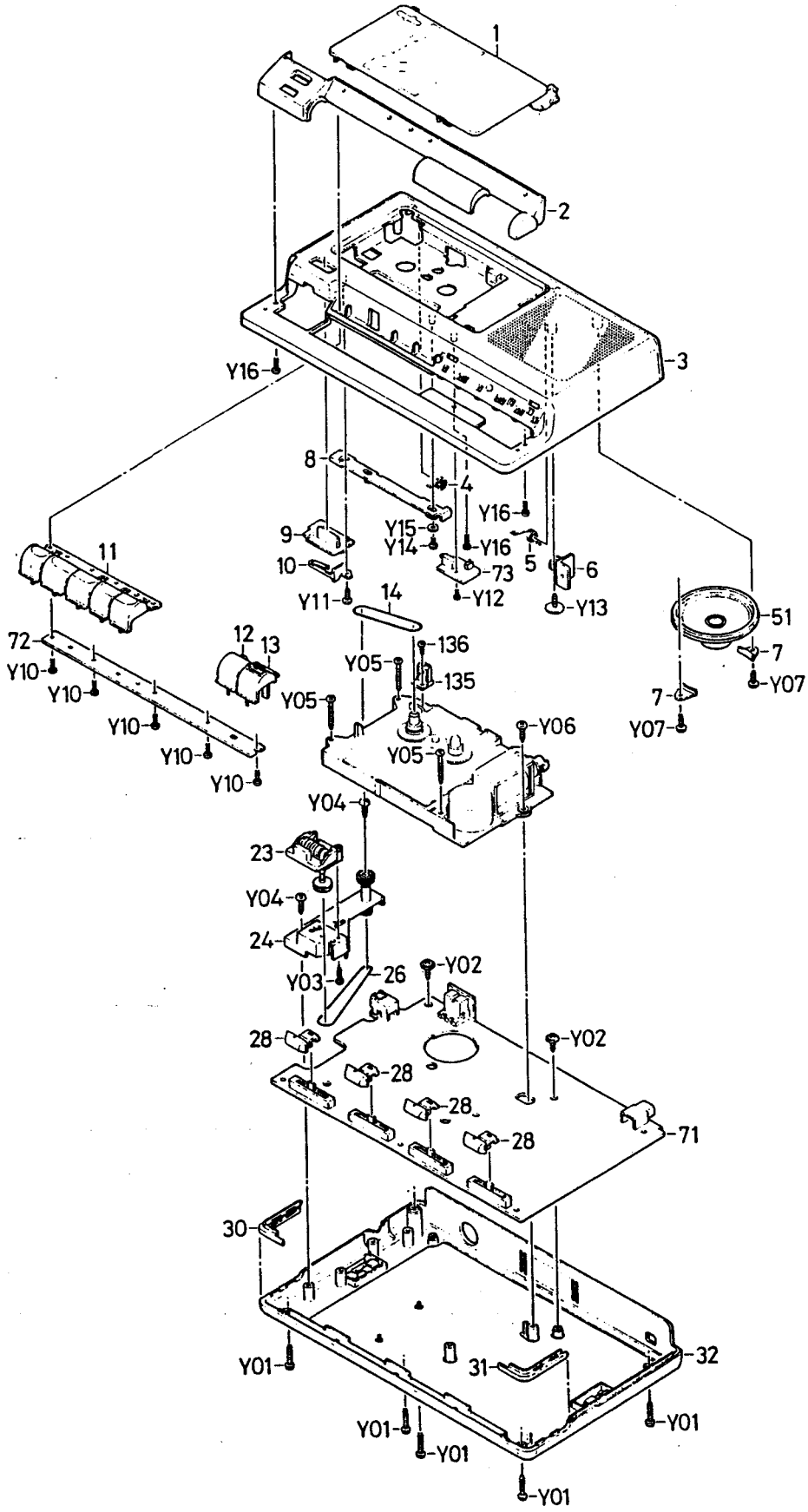


c. CHECKING THE MECHANISM TORQUES AND TENSION

- Clean the head, capstan and pinch roller before making any measurement.

Measurement	Take-up torque	Back tension	Tape tension
Cassette for measurement	PLAY:TW-2111A F.FWD/REW:TW-2231	PLAY:TW-2111A	Drive-power cassette TW-2412
PLAY	30 gr.cm or more	1.0~ 8.0 gr.cm	60 gr. or more
F.FWD	60 gr.cm or more	–	–
REW	60 gr.cm or more	–	–

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION: Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	614 254 0749	CARTON CASE (XE)
	614 254 0763	CARTON CASE (UK)
	614 254 0558	CUSHION,LEFT (XE)
	614 250 6196	CUSHION,LEFT (UK)
	614 254 0565	CUSHION,RIGHT (XE)
	614 250 6202	CUSHION,RIGHT (UK)
	614 254 0787	INSTRUCTION MANUAL (XE)
	614 254 0800	INSTRUCTION MANUAL (UK)
	614 253 1051	INNER POLYE LAMINA COVER (XE)
	614 253 1044	INNER POLYE LAMINA COVER (UK)
	614 250 6141	CASE,ACCESORRY
	⚠620 021 5329	PLUG ADAPTOR,AC (XE)
	⚠620 206 7551	ADAPTOR,AC-DC,D5-9200Z (XE)
	⚠645 002 8700	ADAPTOR,AC-DC (UK)
	620 003 0106	HEAD SET,HEAD PHONE
401	620 208 9720	CUSHION,EAR,HEADPHONE
403	645 002 8953	REMOCON,FOOT CONTROL, TRC-8800XE (XE)
403	620 004 0594	FOOT CONTROL COMP (UK)
	614 245 8587	NOTICE (UK)

CABINET & CHASSIS

Ref. No.	Part No.	Description
	614 254 0688	ASSY,LID,CASSETTE
-	614 254 0695	DEC,FRONT
3	614 253 9781	CABINET
4	614 250 5878	SPRING,WIRE,LID,CASSETTE
5	614 250 4734	SPRING,WIRE,LID,CASSETTE
6	614 069 0385	GEAR ASSY,CASSETTE
7	614 122 0796	BRACKET SPEAKER
8	614 250 1818	SLIDE,EJECT
9	614 250 2723	KNOB,SLIDE,EJECT
10	614 250 5830	MOUNTING,EJECT
11	614 250 2952	BUTTON,TACT,ERASE/STOP/ PLAY/F.FWD/REW
12	614 250 2969	BUTTON,PUSH,SEARCH
13	614 250 2976	BUTTON,POWER
14	614 250 4659	BELT,SQUARE,TAPE COUNTER
23	614 250 4666	COUNTER,TAPE
24	614 252 2646	ASSY,MOUNTING,COUNTER
26	614 250 6042	BELT,SQUARE
28	614 250 2730	KNOB,SLIDE
30	614 250 2709	DEC,FRAME,LEFT
31	614 250 2716	DEC,FRAME,RIGHT
32	614 254 0671	ASSY,CABINET,BOTTOM
	614 254 2569	SPACER,CUSHION,MOLTPREN, CABINET MTG.
	614 125 0236	CUSHION,5X15MM
	614 253 0368	SPACER,CUSHION, 32X32MM,P.C.BOARD
	614 125 1622	CUSHION,5X10MM

FIXING PARTS

Ref. No.	Part No.	Description
Y01	411 021 4609	SCR S-TPG BIN 3X16MM, CABINET BOTTOM
Y02	411 020 9902	SCR S-TPG BRZ+FLG 3X8MM, AMP. P.C.BOARD
Y03	411 021 3107	SCR S-TPG BIN 2.6X8MM, COUNTER
Y04	411 021 4005	SCR S-TPG BIN 3X12MM, MOUNTING,COUNTER
Y05	411 026 4307	SCR S-TPG PAN 3X25MM, MECHANISM
Y06	411 021 4005	SCR S-TPG BIN 3X12MM, MECHANISM
Y07	411 021 6405	SCR S-TPG BIN 3X8MM, SPEAKER FIX
Y10	411 101 9203	SCR S-TPG PAN 2X12MM, LED PCB
Y11	411 021 3107	SCR S-TPG BIN 2.6X8MM, EJECT
Y12	411 022 7807	SCR S-TPG PAN 2X6MM, SWITCH PCB
Y13	412 032 6408	SPECIAL SCREW,DAMPER
Y14	411 022 7807	SCR S-TPG PAN 2X6MM,SLIDE
Y15	411 087 4704	WASHER V 2X6X0.4MM,SLIDE
Y16	411 022 6701	SCR S-TPG PAN 2X10MM,DEC
136	411 102 1701	SCR S-TPG PAN TRS 2X8MM CASSETTE/TAB SWITCH MECHANISM MTG.

ELECTRICAL

Ref. No.	Part No.	Description
51	620 205 8146	SPEAKER,8 OHM
135	620 208 1052	SWITCH,LEAF,S3,S4 CASSETTE/TAB SWITCH, MECHANISM MTG.
CN916	614 253 1181	CORD,4P,CONNECTOR, CASSETTE,TAB SWITCH
CN918	614 253 1204	CORD,2P CONNECTOR,SPEAKER

PARTS LIST

AMP. P.C.BOARD

Ref. No.	Part No.	Description
71	614 250 8671	ASSY,PCB,AMP.
C739	403 058 6107	POLYESTER 0.15U M 50V
CF901	620 026 9650	RESONATER CSA-4MG
CN902	620 017 6729	JACK 3P W/SW,EARPHONE
CN903	620 017 1847	DIN SOCKET 6P,REMOTE
CN904	620 017 6712	EXT POWER SOCKET
CN905	614 017 2560	PLUG,5P,PLAY/ERASE HEAD
CN906	614 017 2614	PLUG,10P,LED PCB
CN908	614 017 2102	PLUG,3P,PLUNGER
CN909	614 017 2546	PLUG,3P,MAIN MOTOR
CN910	614 017 2553	PLUG,4P,CASSETTE,TAB SWITCH
CN913	614 017 2539	PLUG,2P,REEL MOTOR
D601	407 007 9904	DIODE GMA01 (D601-D603)
D701	407 007 9904	DIODE GMA01 (D701-D703)
D901	407 007 9904	DIODE GMA01
D903	407 007 9904	DIODE GMA01 (D903,D904)
D905	407 004 9105	DIODE DSF10C (D905,D906)
D910	407 007 9904	DIODE GMA01
D914	407 007 9904	DIODE GMA01
IC601	409 018 2509	IC LA5525
IC602	409 018 2509	IC LA5525
IC901	409 017 5105	IC LA4160
IC902	409 030 5908	IC MC14066BCP
IC903	409 217 7909	IC LC6554D-4370
IC904	409 002 9309	IC BA6104
IC905	409 026 8500	IC L78M05
IC906	409 030 3805	IC MC14001B
IC907	409 199 4705	IC MC14066BF
L703	620 208 6576	INDUCTOR,FERRITE
L704	614 028 4133	FILTER,10UH
L903	614 028 4133	FILTER,10UH
L905	614 027 6954	CHOKE
PC901	407 060 8401	PHOTO COUPLE ON2170Q
Q601	405 000 4407	TR DTC124ES
Q602	405 009 5108	TR 2SB926-T
Q603	405 000 6104	TR DTC144ES
Q604	405 021 0600	TR 2SD1012-G-SPA
Q605	405 021 0600	TR 2SD1012-G-SPA
Q606	405 000 1208	TR DTA124ES
Q607	405 000 6104	TR DTC144ES
Q608	405 017 9600	TR 2SC3330-T
Q609	405 022 0203	TR 2SD1247-S-AE
or	405 022 0302	TR 2SD1247-T-AE
Q610	405 000 4407	TR DTC124ES
Q611	405 009 5108	TR 2SB926-T
Q612	405 009 5108	TR 2SB926-T
Q613	405 000 4407	TR DTC124ES
Q614	405 021 9900	TR 2SD1246-S-AA
or	405 022 0005	TR 2SD1246-T-AA
Q615	405 021 9900	TR 2SD1246-S-AA
or	405 022 0005	TR 2SD1246-T-AA
Q616	405 017 9600	TR 2SC3330-T
Q617	405 024 9907	TR 2SD734-F
Q618	405 024 9907	TR 2SD734-F
Q619	405 017 9600	TR 2SC3330-T
Q706	405 010 9706	TR 2SC1571-G-NP
Q707	405 000 4407	TR DTC124ES
Q708	405 017 9600	TR 2SC3330-T
Q712	405 017 9600	TR 2SC3330-T
Q713	405 017 9600	TR 2SC3330-T
Q714	405 004 4502	TR 2SA608-F-NP
Q715	405 017 9600	TR 2SC3330-T
Q716	405 004 4502	TR 2SA608-F-NP
Q903	405 017 9600	TR 2SC3330-T
Q904	405 000 1208	TR DTA124ES
Q905	405 000 1208	TR DTA124ES
Q906	405 021 9900	TR 2SD1246-S-AA
or	405 022 0005	TR 2SD1246-T-AA
Q907	405 022 0203	TR 2SD1247-S-AE
or	405 022 0302	TR 2SD1247-T-AE
Q908	405 000 1208	TR DTA124ES
Q909	405 004 4502	TR 2SA608-F-NP
Q912	405 000 6104	TR DTC144ES
Q913	405 017 9600	TR 2SC3330-T
Q914	405 017 9600	TR 2SC3330-T
Q915	405 000 1208	TR DTA124ES
Q918	405 000 1208	TR DTA124ES
Q919	405 000 6104	TR DTC144ES
Q920	405 000 6104	TR DTC144ES
Q921	405 000 4407	TR DTC124ES
Q922	405 000 6104	TR DTC144ES
Q923	405 000 4407	TR DTC124ES
Q924	405 095 2708	TR 2SJ40-D
R612	401 059 1602	OXIDE-MT 15 JA 1W
S903	620 016 4320	PUSH SWITCH,SEARCH
S905	620 015 3164	SWITCH,POWER
S906	614 220 5471	SWITCH,TACT,PLAY
S907	614 220 5471	SWITCH,TACT,F.FWD
S908	614 220 5471	SWITCH,TACT,REW
S909	614 220 5471	SWITCH,TACT,STOP
S910	614 220 5471	SWITCH,TACT,ERASE
T902	620 207 8038	TRANSFORMER
SVR61	614 203 6594	SEMI-FIXED RESISTOR,10K OHM MOTOR SPEED CONTROL
VR601	620 206 5038	VR,SLIDE,50K OHM, SPEED CONTROL
VR701	620 006 3159	SLIDE VR 10KAX1,VOLUME
VR702	620 006 3159	SLIDE VR 10KAX1,TONE
VR901	620 006 3166	SLIDE VR 10KBX1,BACKSPACE

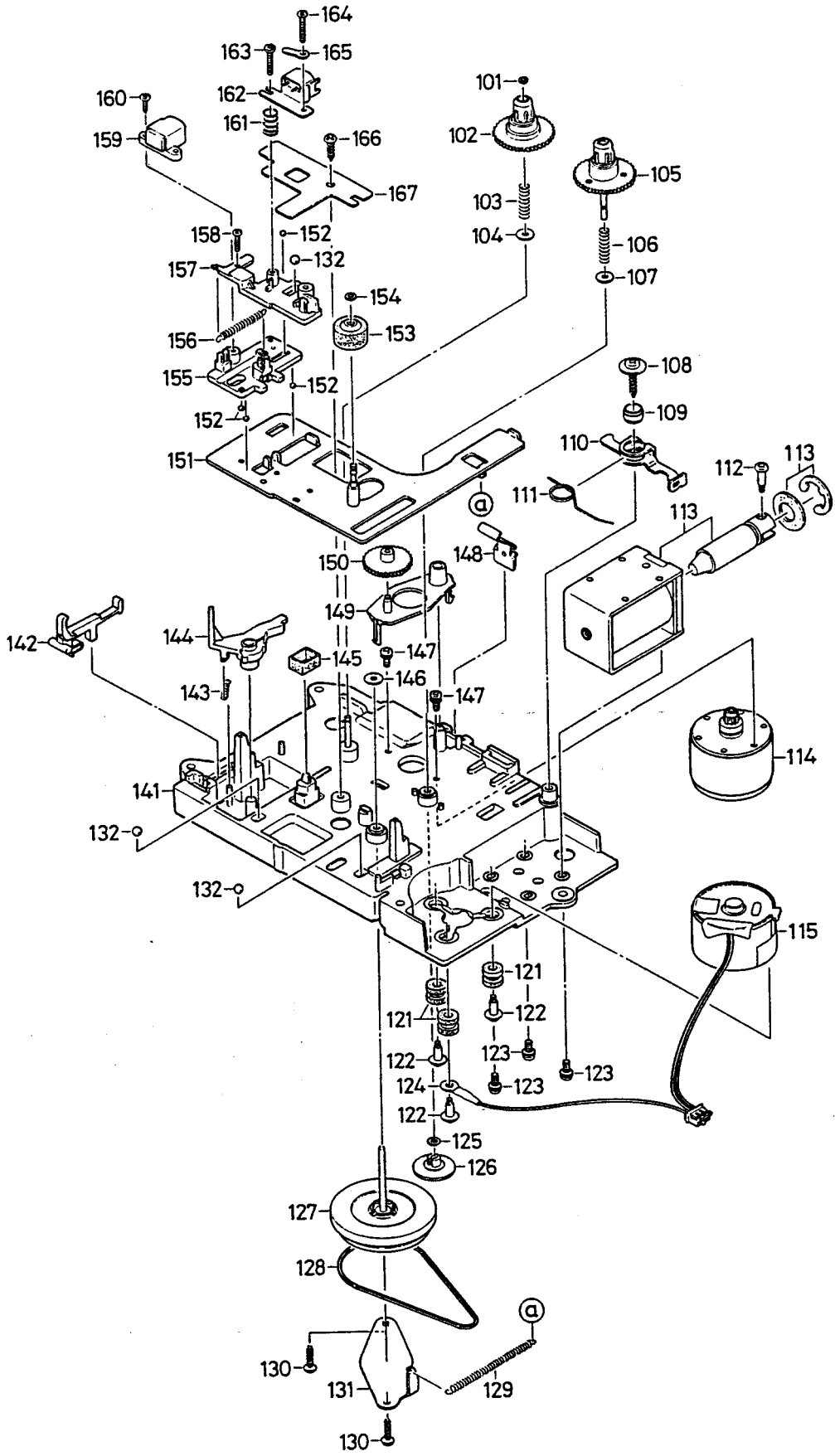
LED P.C.BOARD ASSY

Ref. No.	Part No.	Description
72	614 250 8688	ASSY,PCB,LED
CN907	614 017 2249	PLUG,2P,SPEAKER
CN911	614 017 3819	PLUG,2P,EJECT SWITCH
CN912	614 035 4997	SOCKET,10P
CN920	614 253 1228	CORD,10P,CONNECTOR
D908	408 016 1200	LED SLZ-190B-09-T2,F.FWD
D909	408 016 1200	LED SLZ-190B-09-T2,REW
D912	408 016 1200	LED SLZ-190B-09-T2,PLAY
D913	408 016 1200	LED SLZ-190B-09-T2,ERASE
D922	408 016 1200	LED SLZ-190B-09-T2,POWER

EJECT SWITCH P.C.BOARD ASSY

Ref. No.	Part No.	Description
73	614 253 6919	ASSY,PCB,EJECT SWITCH
CN919	614 253 1211	CORD,2P,CONNECTOR
CN921	614 035 4911	SOCKET,2P
S1	614 230 8578	SWITCH,PUSH,EJECT
S2	620 206 5168	SWITCH,PUSH,EJECT

EXPLODED VIEW (TAPE MECHANISM)



PARTS LIST

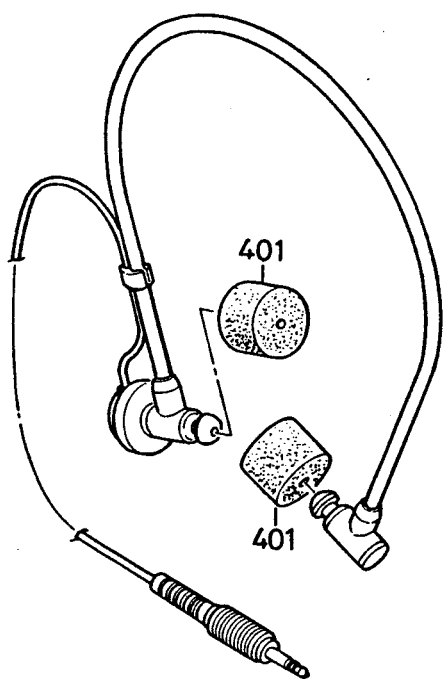
TAPE MECHANISM (TM-T8080-1-JP)

Ref. No.	Part No.	Description
101	620 125 4488	WASHER
102	614 250 5847	REEL,SUPPLY
103	614 250 5861	SPRING,COMP
104	620 125 0480	WASHER
105	620 204 2039	ASSY,REEL,GEAR,TAKE-UP
106	620 204 2930	SPRING,COMP
107	620 125 0480	WASHER
108	620 122 8779	SCREW
109	620 203 9190	ROLLER
110	620 203 9206	LEVER,PLUNGER
111	620 208 1076	SPRING,TORS,PLUNGER
112	620 122 7437	SCREW,PLUNGER
113	645 002 9370	COIL,MAGNETIC, PLUNGER
114	620 219 9016	MOTOR ASSY,9V,1W
115	620 206 5700	MOTOR,9V,1W
121	620 124 1075	CUSHION MOTOR
122	620 122 8274	SCREW,MOTOR
123	411 003 8908	SCR PAN+SW 3X6MM
124	614 253 1174	CORD,3P CONNECTOR WITH LUG, MAIN MOTOR (CN915)
125	620 125 2545	WASHER
126	620 219 9023	DISK ASSY (WITH REFLECTOR)
127	620 219 9030	ASSY,FLYWHEEL (WITH REFLECTOR)
128	620 203 9244	BELT,SQUARE
129	620 204 2923	SPRING,TENSION
130	411 021 1905	SCR S-TPG BIN 2.6X10MM
131	620 203 9220	SUPPORT,FLYWHEEL
132	620 136 1629	BALL

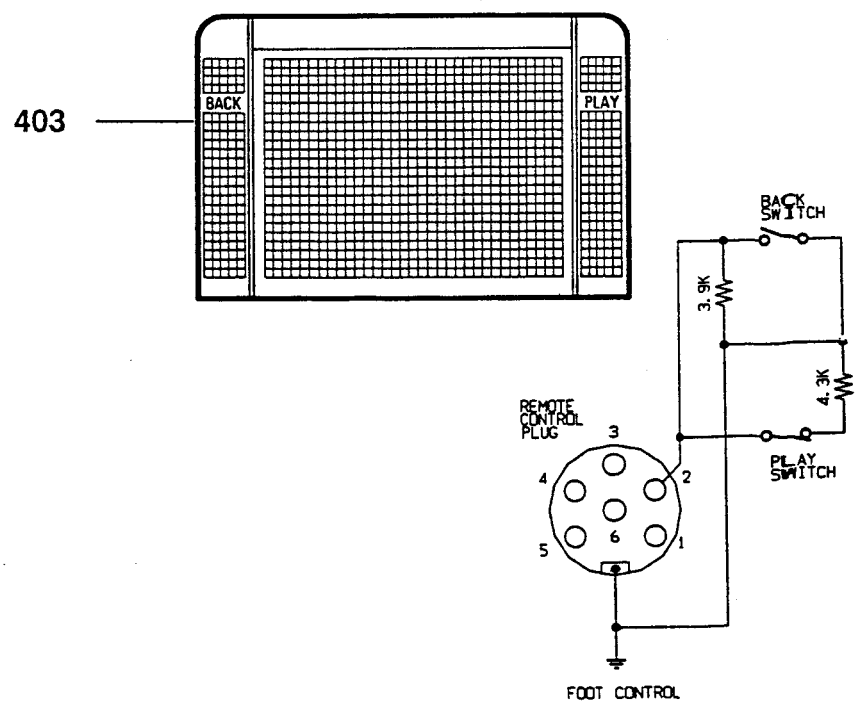
Ref. No.	Part No.	Description
141	620 204 2220	ASSY,CHASSIS
142	620 203 9282	LEVER,EJECT
143	620 136 8208	SPG STOP LEVER
144	620 203 9213	LEVER,LOCK
145	620 124 1563	DAMPER CHASSIS
146	620 125 0855	WASHER,FLYWHEEL
147	411 003 8809	SCR PAN+SW 2.6X6MM
148	620 206 4499	SPRING,PLATE,CASSETTE
149	620 203 9169	ARM,TAKE UP
150	614 206 8007	GEAR IDLER
151	620 204 2022	ASSY,BASE,SLIDE
152	620 136 1599	BALL
153	620 126 9529	PINCH ROLLER
154	620 125 3351	WASHER
155	620 209 9095	SLIDE,ERASE,HEAD
156	614 206 9660	SPRING BASE HEAD
157	620 206 3775	SPACER,HEAD
158	411 039 4103	SCR PAN 2X8MM
159	620 208 6620	ASSY,PCB,ERASE HEAD
160	411 021 0809	SCR S-TPG BIN 2X6MM
161	620 137 3981	SPRING ADJUST MOTOR
162	620 206 5045	HEAD,PLAY
163	411 033 0408	SCR BIN 2X12MM
164	411 038 7501	SCR PAN 2X12MM
165	620 125 8417	LUG
166	411 021 1905	SCR S-TPG BIN 2.6X10MM
167	620 138 4994	SPRING BASE SLIDE
CN914	614 253 1167	CORD,2P,CONNECTOR,REEL MOTOR
CN917	614 253 1198	CORD,5P,CONNECTOR, ERASE & PLAY HEAD
	620 123 8112	SHEET,CHASSIS MTG.

ACCESSORIES PARTS

HEAD SET, HEADPHONE



FOOT CONTROL



IC & TRANSISTOR VOLTAGE

(V)

TRANSISTOR	Q601			Q602			Q603			Q604			Q605		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	4.9	0	0	9.2	9.9	9.9	0	7.4	0	6.9	6.2	6.2	0	6.2	6.2
PLAY	4.9	0	0	8.4	9.2	9.2	0	6.6	0	6.1	5.4	5.4	0	5.4	5.4
F.FWD	4.9	0	0	8.9	9.7	9.7	9.8	0	0	0	6.0	6.0	6.7	6.0	6.0
REW	4.9	0	0	8.9	9.7	9.7	9.8	0	0	0	6.0	6.0	6.7	6.0	6.0

TRANSISTOR	Q606			Q607			Q608			Q609			Q610		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	9.8	0	9.8	0	9.8	0	0	9.5	0	9.5	9.8	8.8	0	8.3	0
PLAY	9.1	0	9.1	0	9.1	0	0.8	0	0	4.0	7.6	3.4	4.9	0	0
F.FWD	0	9.7	9.7	4.9	0	0	0	9.2	0	9.2	8.8	8.6	4.9	0	0
REW	0	9.7	9.7	4.9	0	0	0	9.2	0	9.2	8.8	8.6	0	8.0	0

TRANSISTOR	Q611			Q612			Q613			Q614			Q615		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	8.3	3.8	8.8	8.3	3.8	8.8	0	8.3	0	3.8	3.8	3.5	3.8	3.8	3.5
PLAY	2.6	3.3	3.4	2.9	0.1	3.4	0	2.9	0	0.1	3.3	0.1	0.8	0.1	0.1
F.FWD	7.8	8.4	8.5	8.0	1.9	8.5	0	8.0	0	1.9	8.4	1.9	2.6	1.9	1.9
REW	8.0	1.6	8.5	7.7	8.4	8.5	4.9	0	0	2.3	1.6	1.5	1.6	8.4	1.5

TRANSISTOR	Q616			Q617			Q618			Q619			Q706		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	0	4.5	0	4.5	3.8	3.8	4.5	3.8	3.8	0	4.5	0	0.6	1.4	0
PLAY	0.6	0	0	0	3.2	0.1	3.4	3.0	3.3	0	3.4	0	0.6	1.4	0
F.FWD	0.6	0	0	0	8.3	1.9	8.6	8.2	8.4	0	8.6	0	0.6	1.4	0
REW	0	8.5	0	8.5	8.1	8.4	0	8.2	1.6	0.6	0	0	0.6	1.4	0

TRANSISTOR	Q707			Q708			Q712			Q713			Q714		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	0	0	0	0	0	0	4.2	6.3	3.9	0.6	2.9	0	6.2	0	6.3
PLAY	0	0	0	0	0	0	4.0	5.8	3.5	0.6	2.7	0	5.7	0	5.8
F.FWD	4.9	0	0	0.7	0	0	4.1	6.0	3.7	0.6	2.9	0	6.0	0	6.1
REW	4.9	0	0	0.7	0	0	4.1	6.0	3.7	0.6	2.9	0	6.0	0	6.1

IC & TRANSISTOR VOLTAGE

(V)

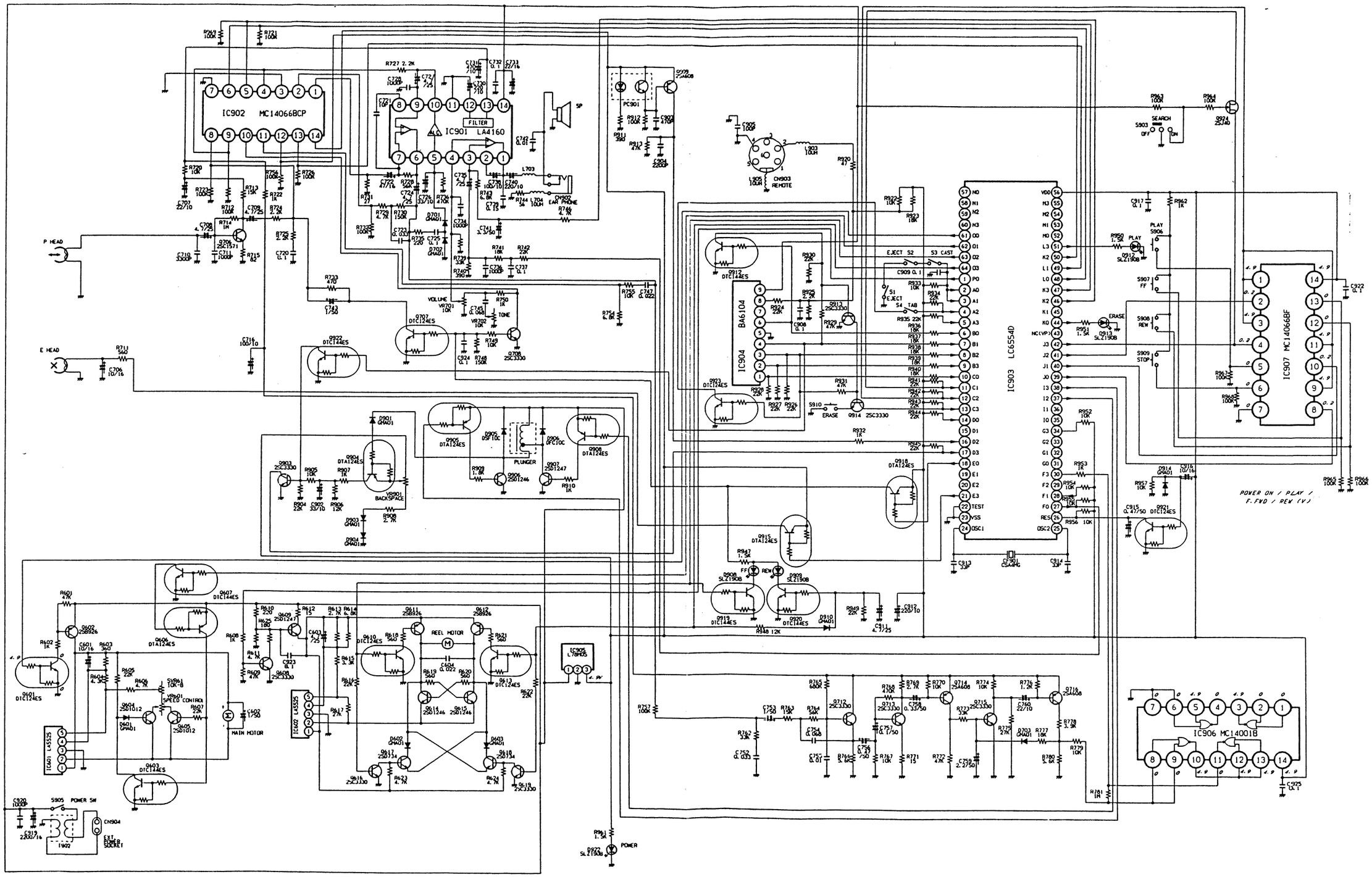
TRANSISTOR	Q715			Q716			Q903			Q904			Q905		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	0	4.6	0	6.3	0	6.3	0	4.9	0	4.9	0	4.9	9.9	0	9.9
PLAY	0	4.2	0	5.8	0	5.8	0	4.9	0	0.5	4.9	4.9	0	9.1	9.1
F.FWD	0	4.5	0	6.1	0	6.1	0	4.9	0	4.9	0	4.9	9.7	0	9.7
REW	0	4.5	0	6.1	0	6.1	0	4.9	0	4.9	0	4.9	9.7	0	9.7

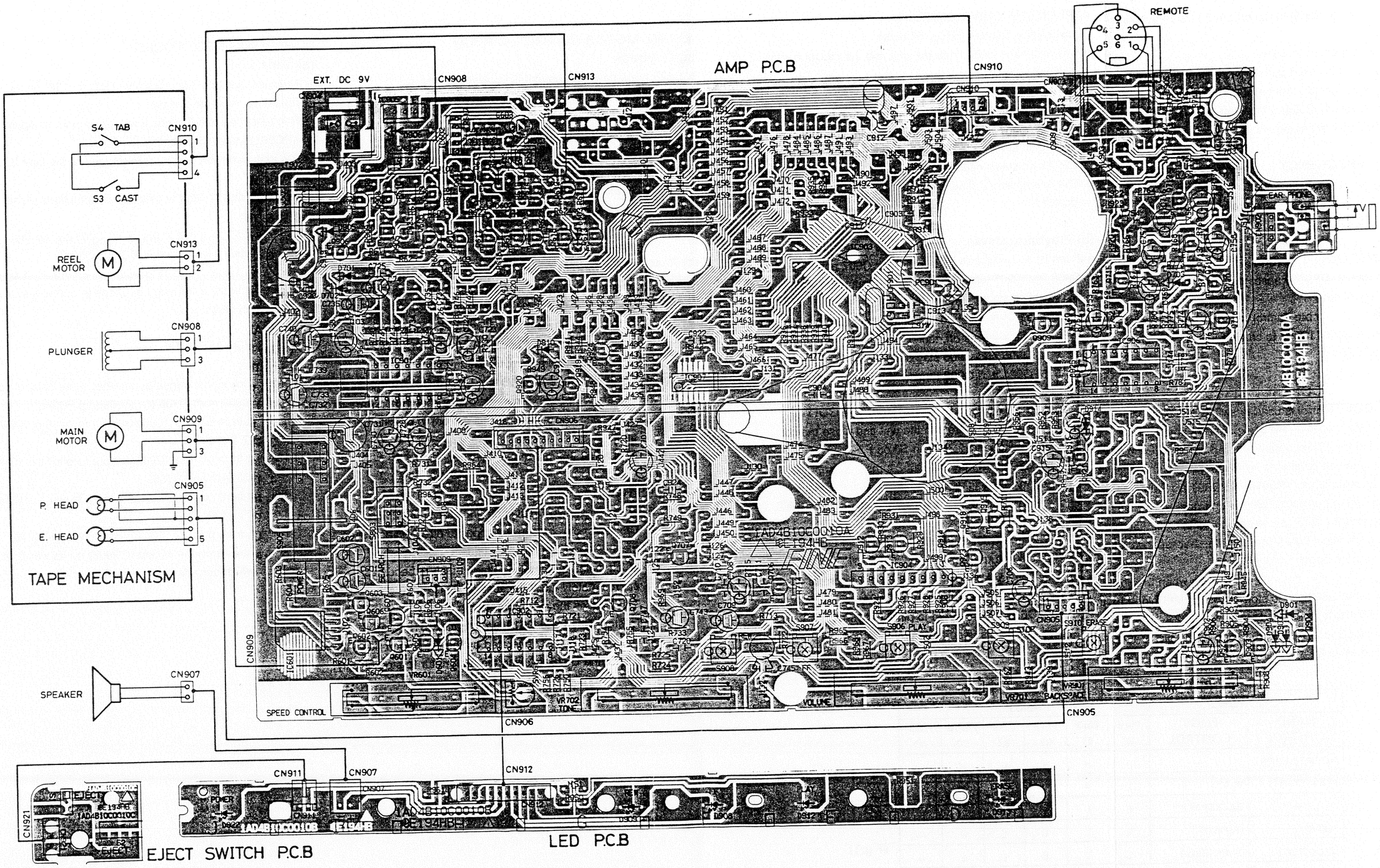
TRANSISTOR	Q906			Q907			Q908			Q909			Q912		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	0	9.9	0	0	9.9	0	9.9	0	9.9	-	-	4.9	9.4	0	0
PLAY	0.7	0	0	0	6.9	0	9.1	0	9.1	-	-	4.9	8.6	0	0
F.FWD	0	9.7	0	0	9.7	0	9.7	0	9.7	-	-	4.9	9.2	0	0
REW	0	9.7	0	0	9.7	0	9.7	0	9.7	-	-	4.9	9.2	0	0

TRANSISTOR	Q913			Q914			Q915			Q918			Q919		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	0	6.7	0	6.7	6.1	6.1	4.9	0	4.9	4.9	0	4.9	0	0	0
PLAY	0	6.5	0	6.5	5.9	5.9	4.9	0	4.9	4.9	0	4.9	4.9	0	0
F.FWD	0	6.6	0	6.6	6.0	6.0	4.9	0	4.9	0	4.9	4.9	4.9	0	0
REW	0	6.6	0	6.6	6.0	6.0	4.9	0	4.9	0	4.9	4.9	0	0.8	0

TRANSISTOR	Q920			Q921			Q922			Q923			Q924		
PIN	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
POWER ON	0	0	0	0	4.9	0	9.3	0	0	9.3	0	0	0	9.8	4.9
PLAY	0	0	0	0	4.9	0	8.6	0	0	8.5	0	0	0	9.1	4.9
F.FWD	0	0.8	0	0	4.9	0	9.1	0	0	9.1	0	0	0	9.7	4.9
REW	2.5	0	0	0	4.9	0	9.1	0	0	9.1	0	0	0	9.7	4.9

SCHEMATIC DIAGRAM




AMP P.C.B
EXT. DC 9V
CN908
CN913
CN910
REMOTE
S4 TAB
S3 CAST
REEL MOTOR
PLUNGER
MAIN MOTOR
P. HEAD
E. HEAD
TAPE MECHANISM
SPEAKER
CN907
CN909
CN905
CN906
CN911
CN912
CN921
SPEED CONTROL
VOLUME
BACKSPACE
EAR PHONE
POWER
EJECT
LED P.C.B
EJECT SWITCH P.C.B

a. RESET

1. When the power switch (S905) is turned on, 5 V is output from pin 3 of IC905.
2. Pin 3 of IC905 is connected to C916.
3. C916 turns Q921 on for a fixed period of time.
4. Pin 26 of IC903 is connected to a ground to reset the unit.
5. Turning the power switch (S905) off causes the electrical load of C916 to quickly be discharged via D914.

b. IC903 CLOCK FREQUENCY

1. A frequency of approximately 4 MHz is generated by CF901, C913 and C914.
2. This frequency is used as the reference frequency by IC903.

c. REMOTE CONTROL

1. Operating the switches (BACK, F.FWD, PLAY) on the remote control causes the voltage of IC904 pin 8 to change.
2. Operating the remote control causes the voltages of pins 6, 7, 8, 9 and 10 of IC903 to change as indicated in the table. **(Fig.1)**

d. BACKSPACE CONTROL CIRCUIT

- When the foot control is used to switch from playback to stop, the tape is rewound for a fixed period of time.

This fixed period of time can be altered by changing the position of the backspace control volume (VR901).

1. Since Q906 is on during playback, Q904 also turns on.
2. An electrolytic capacitor (C902) is charged.
3. The volume of the electrical load stored in C902 can be changed by altering the position of the backspace control volume (VR901).
4. The period of time that Q903 remains on when the unit switches from playback to stop status is determined by the volume of the electrical load stored in C902.
5. Rewind takes place while Q903 is on (while pin 17 IC903 is low).

e. PLUNGER DRIVE CIRCUIT

(a) Standby Status (Stop Status)

- If a cassette is loaded into the unit and the cassette lid is closed:

1. Switches S1: EJECT, S2: EJECT and S3: CASSETTE all turn on.
2. Q908 turns on for approximately 0.5 seconds.
3. Q907 also turns on for approximately 0.5 seconds.
4. Q907's on status causes the plunger to retract.
5. The mechanism's slide base stays in the standby position.

(b) Playback Status

- If the PLAY switche is in the on position:

1. Q908 and Q905 turn on and Q907 and Q906 also turn on.
2. The mechanism's slide base once again changes to playback status.
3. Approximately 0.5 seconds later, Q908 turns off and Q907 turns off, too.
4. Q905 and Q906 stay on.
5. Q905 and Q906 remain on until the unit is stopped.

f. MAIN MOTOR CONTROL CIRCUIT

- Load a cassette into the unit and close the cassette lid. (Switches S1, S2 and S3 on.)

1. Q601 turns on and Q602 turns on also.
2. A voltage is applied to pin 1 of IC601, causing the main motor to operate.

(a) Playback

1. Since Q607 is off, Q606, Q605 and Q603 also turn off.
2. Q604 turns on via R605 and D601.
3. The variable contact of the speed control volume (VR601) is connected to Q604.
4. Q604 is connected to pin 2 of IC601. VR601 is used to control the speed of the main motor.

FUNCTIONS		IC903					
(HAND CONTROL)	FOOT CONTROL	Pin 6 B0	Pin 7 B1	Pin 8 B2	Pin 9 B3	Pin 10 C0	Pin 5 A3
NO OPERATION	---	H	H	H	H	H	---
PLAY (START)	PLAY	L	H	H	H	H	---
---	BACKSPACE	L	L	H	H	H	---
F. FWD	(F. FWD)	L	L	L	L	H	---
BACK (REW)	BACK (REW)	L	L	L	L	L	---

(Fig.1)

g. REEL MOTOR CONTROL CIRCUIT

(a) Playback

1. Q608 turns on when the unit is in playback status.
2. The output (emitter) voltage of Q609 drops to approximately 3.5 V.
3. Q610 turns on and so does Q611.
4. A voltage is applied to Q615 via R619, causing it to turn on.
5. A current from Q611 flows through the reel motor. The reel motor runs in the playback direction.
6. At this point, the emitter voltage of Q609 is low, causing the reel motor to run slowly.

(b) Fast Forward

1. In fast forward status, Q608 is off and Q610 is on.
2. The reel motor runs in the same direction as during playback status.
3. At this point, the emitter voltage of Q609 becomes approximately 7.8 V because Q608 is off. This causes the reel motor to run fast.
4. To stop, Q610 and Q616 turn off and Q617 turns on.
5. The startup power generated by the reel motor flows through D602 and Q617, causing this current to quickly become smaller. This stops the reel motor quickly.

(c) Rewind

1. In rewind status, Q608 is off and Q613, Q612 and Q614 are on.
2. The reel motor runs in the opposite direction as during playback and fast forward status.
3. At this point, the emitter voltage of Q609 becomes approximately 7.8 V because Q608 is off. This causes the reel motor to run fast.
4. To stop, Q613 and Q619 turn off and Q618 turns on.
5. The startup power generated by the reel motor flows through D603 and Q618, causing the reel motor to stop quickly.

h. WARNING BEEP TONES

(a) Tape End

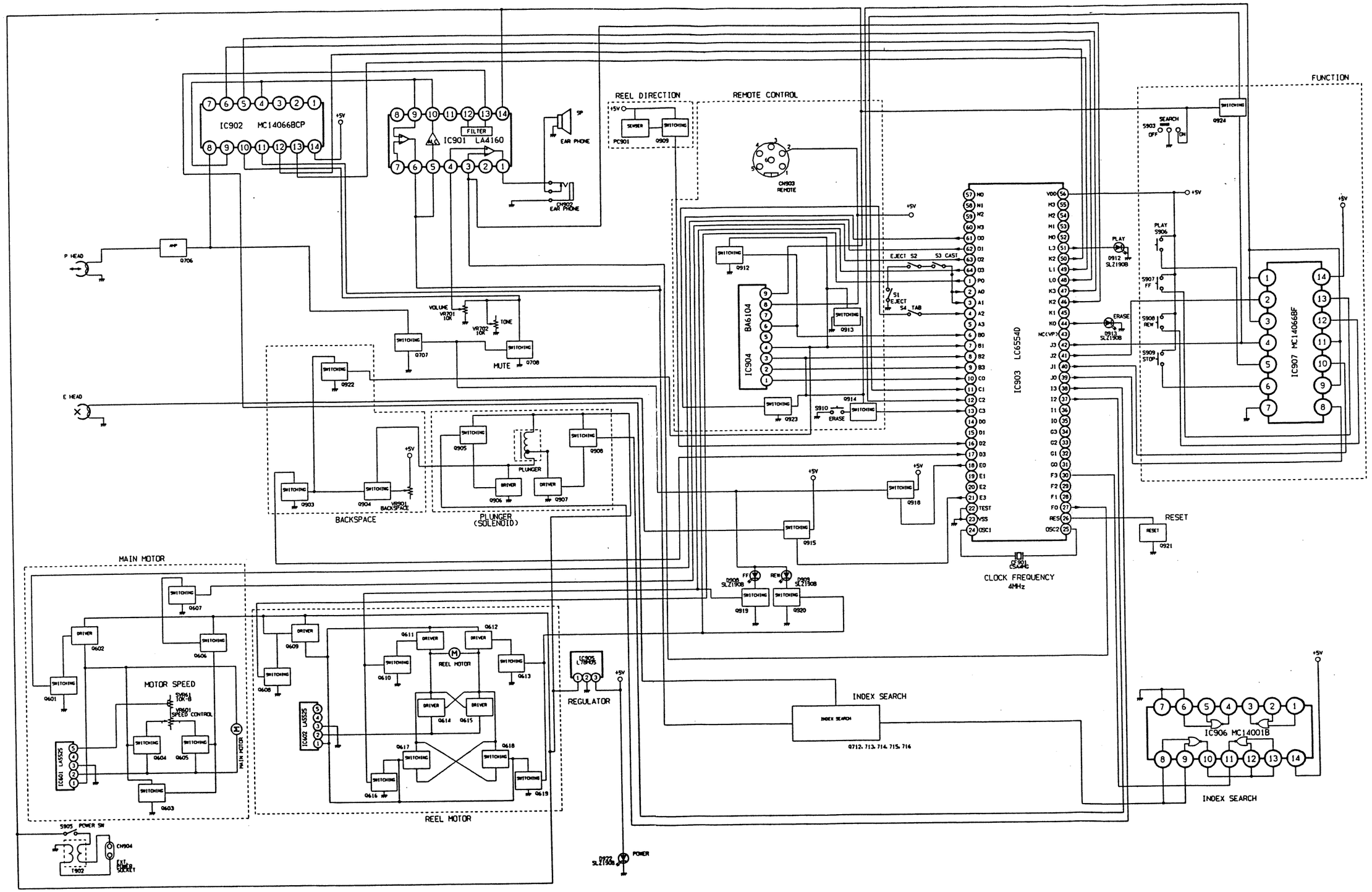
1. The mechanism's disc assembly (ref. no. 126) has a reflecting panel on its base.
2. This reflecting panel sends a pulse to a photocoupler (PC901) as the disc assembly rotates.
3. The disc assembly stops when the end of the tape is reached.
4. When the disc assembly stops, the fluctuations in the pulse stop, too.
5. The pulse is conveyed to pin 16 of IC903 by the reel motor rotation sensor circuit (PC901, Q909).
6. If the input signal to pin 16 of IC903 does not fluctuate for two seconds, a warning beep tone is output and the mechanism stops.

i. AUDIO SIGNAL PATH

(a) Playback

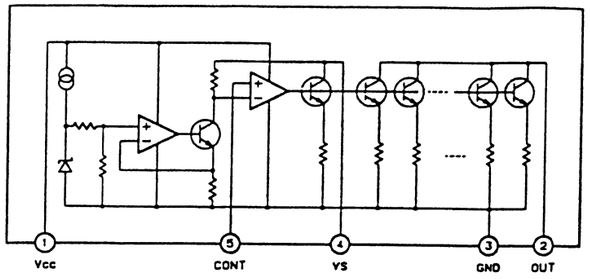
1. The playback signal output by the Play head is input to pin 8 of IC902 from Q706 (C), C709 and R724.
2. The output from pin 9 of IC902 is input to pin 9 of IC901 from R727 and C728.
3. The output from pin 6 of IC902 is input to pin 11 of IC902 from C724, C747 and R755.
4. The output from pin 10 of IC902 is input to pin 4 of IC901 from R750 and VR701.
5. The output from pin 1 of IC901 passes through C740, L703 and the earphone socket (CN902) on its way to the speaker, which outputs it as the audio signal.

BLOCK DIAGRAM

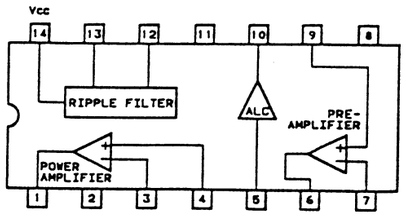


IC BLOCK DIAGRAM

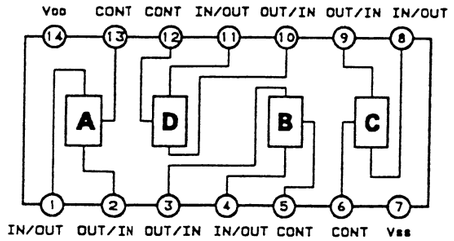
IC601, IC602 LA5525 MOTOR DRIVER



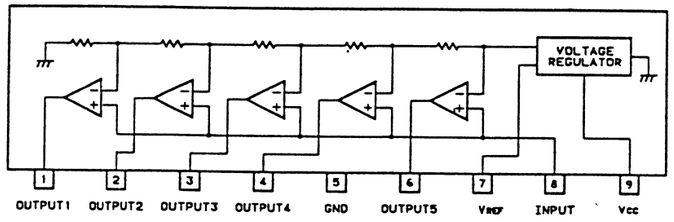
IC901 LA4160 AF AMP.



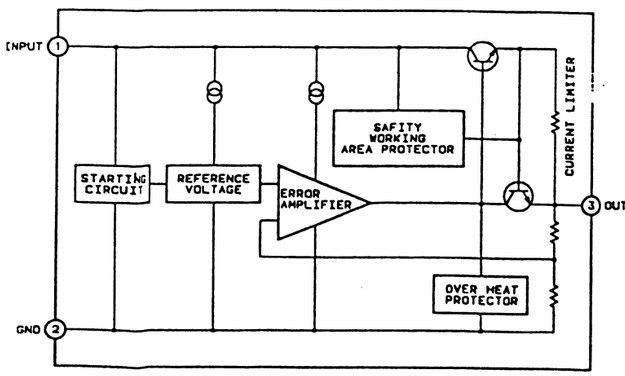
IC902 MC14066BCP SWITCH



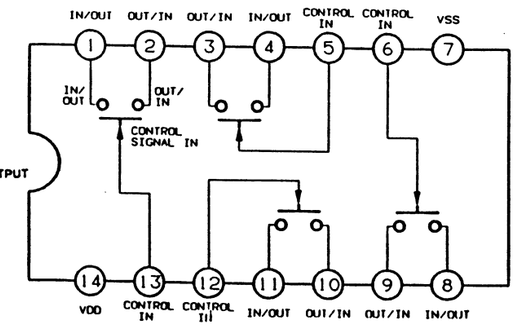
IC904 BA6104 REMOTE CONTROL



IC905 L78M05 VOLTAGE REGULATOR



IC907 MC14066BF FUNCTION SWITCH


IN/OUT OUT/IN OUT/IN IN/OUT CONTROL IN CONTROL IN VSS
IN/OUT
OUT/IN
CONTROL SIGNAL IN
VDD CONTROL IN CONTROL III IN/OUT OUT/IN OUT/IN IN/OUT

IC & TRANSISTOR VOLTAGE

(V)

IC901

PIN	1	2	3	4	5	6	7	8	9	10
POWER ON	0.1	9.5	1.7	0	0	4.1	4.1	7.6	4.1	0
PLAY	4.4	8.9	0.6	0	0	3.8	3.8	7.0	3.8	0
F.FWD	0.1	9.4	1.7	0	0	4.0	4.0	7.3	4.0	0
REW	0.1	9.4	1.7	0	0	4.0	4.0	7.3	4.0	0

PIN	11	12	13	14						
POWER ON	0	4.0	8.2	9.8						
PLAY	0	3.8	7.6	9.1						
F.FWD	0	4.0	8.1	9.6						
REW	0	4.0	8.1	9.6						

IC902

PIN	1	2	3	4	5	6	7	8	9	10
POWER ON	0	0	0	0	0	4.9	0	0	0	0
PLAY	0	0	0	0	0	4.9	0	0	0	0
F.FWD	0	0	0	0	0	4.9	0	0	0	0
REW	0	0	0	0	0	4.9	0	0	0	0

PIN	11	12	13	14						
POWER ON	0	0	4.9	4.9						
PLAY	0	4.9	4.9	4.9						
F.FWD	0	4.9	0	4.9						
REW	0	4.9	0	4.9						

IC903 (1/2)

PIN	1	2	3	4	5	6	7	8	9	10
POWER ON	0	0	0	0	4.9	9.0	9.0	9.0	9.0	9.0
PLAY	4.6	0	0	0	4.9	8.3	8.3	8.3	8.3	8.3
F.FWD	0	0	0	0	4.9	8.7	8.7	8.7	8.7	8.7
REW	0	0	0	0	4.9	8.7	8.7	8.7	8.7	8.7

PIN	11	12	13	14	17	18	19	20	21	26
POWER ON	4.9	4.9	6.0	4.9	4.9	4.9	4.9	0	4.9	4.9
PLAY	4.9	4.9	5.8	4.9	4.9	4.9	4.9	0	4.9	4.9
F.FWD	4.9	4.9	6.0	4.9	4.9	0	4.9	0	4.9	4.9
REW	4.9	4.9	6.0	4.9	4.9	0	4.9	0	4.9	4.9

IC & TRANSISTOR VOLTAGE

IC903 (2/2) (V)

PIN	27	28	30	34	37	38	39	40	41	42
POWER ON	0	4.9	0	0	9.8	9.8	0.2	0.2	0.2	0.2
PLAY	0	4.9	0	0	9.0	0	0.2	0.2	0.2	0.2
F.FWD	0	4.9	0	0	9.4	9.5	0..2	0.2	0.2	0.2
REW	0	4.9	0	0	9.5	9.6	0.2	0.2	0.2	0.2

PIN	44	45	46	47	48	49	50	51	56	61
POWER ON	0	0	4.9	0	4.9	4.9	0	0	4.9	4.9
PLAY	0	0	0.6	0	4.9	4.9	4.9	4.8	4.9	4.9
F.FWD	0	0	4.9	0	4.9	0	4.9	0	4.9	4.9
REW	0	0	4.9	0	4.9	0	4.9	0	4.9	4.9

PIN	62	63	64							
POWER ON	0	0	0							
PLAY	0	4.9	0							
F.FWD	4.9	4.9	0							
REW	4.9	0	4.9							

IC904

PIN		1	2	3	4	5	6	7	8	9
(HAND CONTROL)	FOOT CONTROL									
POWER ON	---	9.3	9.1	9.2	9.1	0	9.2	1.0	1.3	9.8
PLAY	PLAY	8.5	8.4	8.4	8.4	0	0	1.0	0.9	9.0
---	BACKSPACE	9.3	9.2	9.2	0	0	0	1.0	0.7	9.8
F.FWD	(F.FWD)	9.0	0	0	0	0	0	1.0	0.3	9.6
BACK (REW)	---	0	0	0	0	0	0	1.0	0	9.6

IC905

PIN	1	2	3							
POWER ON	9.8	0	4.9							
PLAY	9.0	0	4.9							
F.FWD	9.6	0	4.9							
REW	9.6	0	4.9							

IC & TRANSISTOR VOLTAGE

(V)

IC906

PIN	1	2	3	4	5	6	7	8	9	10
POWER ON	0	0	4.9	0	4.9	0	0	0	0	4.9
PLAY	0	0	4.9	0	4.9	0	0	0	0	4.9
F.FWD	0	0	4.9	0	4.9	0	0	0	0	4.9
REW	0	0	4.9	0	4.9	0	0	0	0	4.9

PIN	11	12	13	14						
POWER ON	0	4.9	4.9	4.9						
PLAY	0	4.9	4.9	4.9						
F.FWD	0	4.9	4.9	4.9						
REW	0	4.9	4.9	4.9						

IC907

PIN	1	2	3	4	5	6	7	8	9	10
POWER ON	4.9	0.2	4.9	0.2	0	0	0	0.2	4.9	0.2
PLAY	4.9	0.2	4.9	0.2	0	0	0	0.2	4.9	0.2
F.FWD	4.9	0.2	4.9	0.2	0	0	0	0.2	4.9	0.2
REW	4.9	0.2	4.9	0.2	0	0	0	0.2	4.9	0.2

PIN	11	12	13	14						
POWER ON	4.9	0	0	4.9						
PLAY	4.9	0	0	4.9						
F.FWD	4.9	0	0	4.9						
REW	4.9	0	0	4.9						

Bezeichnung/Description
SERV. MANUAL+PL
Teile-Nr./Parts No.
SM-S80199
Menge/Quantity
1
LS-Nr.
215667/ 1
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SM-/0-73
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E :
F :
G :

Page & Section	Ref. No.		Part No.	Description	Q'ty	Interchange-ability	Reason
P8 PARTS LIST	131	Old	620 203 9220	SUPPORT, FLYWHEEL	1		A
	131	New	620 219 4370	ASSY, SUPPORT, FLYWHEEL	1		

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